

Title (en)
SEMICONDUCTOR FILE APPARATUS

Publication
EP 0316867 A3 19900711 (EN)

Application
EP 88119022 A 19881115

Priority
JP 28833487 A 19871117

Abstract (en)
[origin: EP0316867A2] A semiconductor file apparatus including a volatile store medium (13) which can be accessed, during a normal operation of a central processor (10) having a higher level, from the central processor at a relatively high speed, a nonvolatile store medium (15) capable of storing therein, when the operation of the central processor is stopped, store data of the volatile store medium, and a data transfer unit (17) which transfers, when the operation of the central processor is stopped, the store data of the volatile store medium to the nonvolatile store medium so as to store the store data therein and which transfers, when the central processor is started, the store data stored in the nonvolatile store medium again to said volatile store medium so as to store the store data therein, thereby effecting data transfers between the nonvolatile store medium and the volatile store medium. The data transfer unit (17) effects, at an occurrence of a write failure in either one of the volatile store medium and the nonvolatile store medium during the data transfer, a rewrite operation in an alternate area of the store medium associated with the write failure according to a transfer unit which is a localized minimum data unit including the write failure portion of the store medium and effects, at an occurrence of a read failure in a read operation from either one of the volatile store medium and the nonvolatile store medium during the data transfer, an operation to produce pseudo data in the transfer unit for the read failure portion of the store medium.

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G06F 11/20; **G11B 20/18**; **G11C 5/00**

IPC 8 full level
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Citation (search report)
• [Y] WO 8301334 A1 19830414 - DIGITAL EQUIPMENT CORP [US]
• [A] WO 8402017 A1 19840524 - STORAGE TECHNOLOGY CORP [US]
• [Y] PATENT ABSTRACTS OF JAPAN vol. 9, no. 170 (P-373) 16 July 1985, & JP-A-60 045857 (HITACHI SEISAKUSHO KK) 12 March 1985,

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EP0442531A3; EP0420211A3; US5218590A; CN111179997A

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